State of Utah

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Department of Administrative Services
KIMBERLY HOOD
Executive Director

Division of Facilities Construction and Management
F. KEITH STEPAN
Director

ADDENDUM

Date: 02-12-2007

To: Contractors

From: **Brent Lloyd Project Manager**
Utah College of Applied Technology
Davis ATC
Culinary Arts Addition / Remodel
DFCM Project No. 06134220

Subject: **Addendum No.1**

Pages:		
	Addendum Cover Page	1 Page
	Architects Clarifications	33 Pages
	Total	34 Pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

SCHEDULE HAS NOT BEEN CHANGED

1.1 Clarifications to Drawings and Specifications

End of Addendum

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Addendum No. 1

Project: DATC Culinary Arts Addition / Remodel
Address:
City, State: Kaysville, Utah
Owner: DFCM

Date: February 12, 2007
Project No.: 0615.01
Owner No.: 06134220
File No.:

To all Bidders of Record:

This addendum forms a part of the contract documents and modifies the original specifications and drawings as noted below. Items of general information are included without reference to the plans and specifications. Revisions to the specifications are referenced by page number and paragraph heading on that page. Revisions to the drawings are reference by the drawing number. Unless otherwise stated, any changes herein offset only the specific drawings, words, or paragraphs mentioned, and the balance of the drawings and specifications remain in full force. Acknowledge receipt of this addendum in the space provided on the Bid form. Failure to do so will subject the Bidder to disqualification.

Item No.	Section or Sheet No.	Description
GENERAL ITEMS		
1-1		
SPECIFICATION ITEMS		
1-2	01230	**Delete** this section.
1-3	05120	Structural steel. **Add** General note "If the fabrication plant is not a DFCM approved fabricator, in plant special inspection will be required.
1-4	07210	Building insulation. **Add** specification section included with this addendum.
1-5	07412-4	2.1 A.1.b. **Delete** "Smith Steelite, Inc." (Existing system is Robertson).
1-6	07412-4	2.1.A.2 **Delete** Section "Aluminum faced composite metal panels."
1-7	07511	Built-up asphalt roof. **Add** specification section included with this addendum.
1-8	07620	Sheet metal flashing and trim. **Add** specification section included with this addendum.
1-9	08163	Sliding aluminum glass framed doors. The basis of design is Kawneer's1040 Sliding Mall Front.
1-10	08710	**Add** Hardware Schedule. See attached.
1-11	08710-6	2.3.A 1.a **Delete** "Schlage" and **replace** with "Best".
1-12	08710-8	2.6 A. **Delete** text.

Item No.	Section or Sheet No.	Description
1-13	08710-8	2.7 D.1. **Delete** "Stainless steel" and **replace** with "Brass".
1-14	09310	Ceramic Tile. Provide Laticrete Blue 92 Anti-fracture membrane under all porcelain pavers.
1-15	09310-4	2.3.A **Change** "Unglazed to "Glazed. **Change** "Facial dimension to 13" x 13" Nominal. **Add**: Basis of design: Daltile "Pariso". **Add**: Install on the diagonal.
1-16	09681	**Delete** this section.
1-17	15733	2.4.F Hot gas bypass is not required.
1-18	15733	2.10.A.1.c Provide 2" deflection springs, not 4".
DRAWING ITEMS		
1-19	AS101	**Add** B1. Demolition Parapet Wall as attached (SD-1) with this addendum.
1-20	AD101	Add to Demolition keyed Note #3. Salvage blinds and reinstall, see sheet A101 for location."
1-21	AD101	**Add** to A3 Demolition Plan area to "remove carpet and base" between grid lines 9 & 10.5 and B & B.5.
1-22	AD101	Demolition Plan. Under the existing curtain wall (Note 3) the top 12" of the concrete foundation wall must be removed. Above the curtain wall at the same location the insulated metal panel fascia system is to be removed, and saved for re-installation.
1-23	AD111	Ceiling Demolition Legend. **Delete** "Remove Existing Lay-in Ceiling Panels, Grid to Remain and **replace** with "Remove existing Lay-in Ceiling panels and grid system complete. Provide new edge angle and hanger wires along the north edge."
1-24	AD111	**Add** to Demolition Reflected Ceiling Plan area to "Remove existing suspended ceiling grid and 2x4 acoustic ceiling panels between grid lines 9 & 10.5 and B & B.5.
1-25	AE101	**Replace** this sheet included with this addendum.
1-26	AE111	**Delete** from Ceiling Plan Legend "A. New foil backed 2x2 ceiling panels and new grid, match existing..." **Replace** with "A. 2x2 ceiling panels and new grid, match existing..."
1-27	AE111	**Delete** from Ceiling Plan Legend "B" and **replace** with Ceiling Type A.
1-28	AE301	A3 - **Delete** note "New operable partition wall" and **replace** with "New mallfront sliding door."

Item No.	Section or Sheet No.	Description
1-29	AE501	Door Schedule. Doors 104A & 104C, **change** frame type to #3.
1-30	AE501	**Delete** Frame Type #3 and **Replace** with the revised Frame Type 3. See attached drawing (SD-2).
1-31	AE501	Frame Type 3. The wall above the window frame system to extend 6" above ceiling system and brace to deck above at 4'0" O.C., staggered.
1-32	AE601	**Delete** East Elevation and **Replace** with drawing SD-3. See attached.
1-33	AE601	**Delete** Sliding Mall Front Head detail and replace with drawing SD-4. See attached.
1-34	E2.11	**Add** a New Fire Alarm Pull Station by the new door and tie to the existing Fire Alarm Control Panel. Refer to the Architectural Drawing for location of new exit door, (Door 102G).
1-35	E9.11	**Add** a new Exit Sign by the new Exit Door and tie to the nearest emergency lighting circuit. Refer to the Architectural Drawing for location of new exit door, (Door 102 G).

PRIOR APPROVALS

1-36	None

ATTACHMENTS

1-37	07210 - Building insulation specification.
1-38	07620 - Sheet Metal Flashing and Trim specification.
1-39	07511 - Built up asphalt roof specification.
1-40	08710 - Hardware Schedule
1-41	SD-1 Demolition Parapet Wall detail.
1-42	SD-2 Frame Type
1-43	SD-3 East Elevation.
1-44	SD-4 Sliding Mall front head.
1-45	AE101. Sheet.

SECTION 07210 - BUILDING INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Perimeter insulation under slabs-on-grade.
2. Perimeter wall insulation (supporting backfill).
3. Cavity-wall insulation.
4. Concealed building insulation.
5. Vapor retarders.

1.3 DEFINITIONS

A. Mineral-Fiber Insulation: Insulation composed of rock-wool fibers, slag-wool fibers, or glass fibers; produced in boards and blanket with latter formed into batts (flat-cut lengths) or rolls.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples for Verification: Full-size units for each type of exposed insulation indicated.

C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency for insulation products.

D. Research/Evaluation Reports: For foam-plastic insulation.

1.5 QUALITY ASSURANCE

A. Source Limitations: Obtain each type of building insulation through one source from a single manufacturer.

B. Fire-Test-Response Characteristics: Provide insulation and related materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities

having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.

1. Surface-Burning Characteristics: ASTM E 84.
2. Fire-Resistance Ratings: ASTM E 119.
3. Combustion Characteristics: ASTM E 136.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

B. Protect plastic insulation as follows:

1. Do not expose to sunlight, except to extent necessary for period of installation and concealment.
2. Protect against ignition at all times. Do not deliver plastic insulating materials to Project site before installation time.
3. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Products: Subject to compliance with requirements, provide one of the products specified.
2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 FOAM-PLASTIC BOARD INSULATION

A. Extruded-Polystyrene Board Insulation: ASTM C 578, of type and density indicated below, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively:

1. Manufacturers:

a. DiversiFoam Products.
b. Dow Chemical Company.
c. Owens Corning.
d. Pactiv Building Products Division.

2. Type IV, 1.60 lb/cu. ft., unless otherwise indicated.

2.3 GLASS-FIBER BLANKET INSULATION

A. Manufacturers:

1. CertainTeed Corporation.
2. Guardian Fiberglass, Inc.
3. Johns Manville.
4. Knauf Fiber Glass.
5. Owens Corning.

B. Unfaced, Glass-Fiber Blanket Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics.

1. 9-1/2 inches thick with a thermal resistance of 30 deg F x h x sq. ft./Btu at 75 deg F.

2.4 VAPOR RETARDERS

A. Fire-Retardant, Reinforced-Polyethylene Vapor Retarders: 2 outer layers of polyethylene film laminated to an inner reinforcing layer consisting of either nonwoven grid of nylon cord or polyester scrim and weighing not less than 22 lb/1000 sq. ft., with maximum permeance rating of 0.1317 perm and with flame-spread and smoke-developed indexes of not more than 5 and 60, respectively.

1. Products:

a. Raven Industries Inc.; DURA-SKRIM 2FR.
b. Reef Industries, Inc.; Griffolyn T-55 FR.

B. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

C. Vapor-Retarder Fasteners: Pancake-head, self-tapping steel drill screws; with fender washers.

D. Single-Component Nonsag Urethane Sealant: ASTM C 920, Type I, Grade NS, Class 25, Use NT related to exposure, and Use O related to vapor-barrier-related substrates.

E. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and with demonstrated capability to bond vapor retarders securely to substrates indicated.

2.5 AUXILIARY INSULATING MATERIALS

A. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by insulation manufacturers for sealing joints and penetrations in vapor-retarder facings.

B. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates indicated without damaging insulation and substrates.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements of Sections in which substrates and related work are specified and for other conditions affecting performance.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrates of substances harmful to insulation or vapor retarders, including removing projections capable of puncturing vapor retarders or of interfering with insulation attachment.

3.3 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products and application indicated.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed at any time to ice, rain, and snow.

C. Extend insulation in thickness indicated to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Water-Piping Coordination: If water piping is located within insulated exterior walls, coordinate location of piping to ensure that it is placed on warm side of insulation and insulation encapsulates piping.

E. For preformed insulating units, provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

3.4 INSTALLATION OF GENERAL BUILDING INSULATION

A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.

B. Seal joints between foam-plastic insulation units by applying adhesive, mastic, or sealant to edges of each unit to form a tight seal as units are shoved into place. Fill voids in completed installation with adhesive, mastic, or sealant as recommended by insulation manufacturer.

C. Set vapor-retarder-faced units with vapor retarder to warm side of construction, unless otherwise indicated.

1. Tape joints and ruptures in vapor retarder, and seal each continuous area of insulation to surrounding construction to ensure airtight installation.

D. Install board insulation on concrete substrates by adhesively attached, spindle-type insulation anchors as follows:

1. Fasten insulation anchors to concrete substrates with insulation anchor adhesive according to anchor manufacturer's written instructions. Space anchors according to insulation manufacturer's written instructions for insulation type, thickness, and application indicated.
2. Apply insulation standoffs to each spindle to create cavity width indicated between concrete substrate and insulation.
3. After adhesive has dried, install board insulation by pressing insulation into position over spindles and securing it tightly in place with insulation-retaining washers, taking care not to compress insulation below indicated thickness.
4. Where insulation will not be covered by other building materials, apply capped washers to tips of spindles.

E. Stuff glass-fiber loose-fill insulation into miscellaneous voids and cavity spaces where shown. Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft..

3.5 INSTALLATION OF VAPOR RETARDERS

A. General: Extend vapor retarder to extremities of areas to be protected from vapor transmission. Secure in place with adhesives or other anchorage system as indicated. Extend vapor retarder to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.

B. Before installing vapor retarder, apply urethane sealant to flanges of metal framing including runner tracks, metal studs, and framing around door and window openings. Seal overlapping joints in vapor retarders with vapor-retarder tape according to vapor-retarder manufacturer's written instructions. Seal butt joints with vapor-retarder tape. Locate all joints over framing members or other solid substrates.

C. Firmly attach vapor retarders to metal framing and solid substrates with vapor-retarder fasteners as recommended by vapor-retarder manufacturer.

D. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarder.

E. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarder.

3.6 PROTECTION

A. Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION 07210

SECTION 07511 - BUILT-UP ASPHALT ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Built-up asphalt roofing system.
2. Roof insulation.

B. Related Sections include the following:

1. Division 6 Section "Miscellaneous Carpentry" for wood nailers, curbs, and blocking.
2. Division 7 Section "Sheet Metal Flashing and Trim" for metal roof penetration flashings, flashings, and counterflashings.
3. Division 15 Section "Plumbing Specialties" for roof drains.

1.3 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.

B. Hot Roofing Asphalt: Roofing asphalt heated to its equiviscous temperature, the temperature at which its viscosity is 125 centipoise for mopping application and 75 centipoise for mechanical application, within a range of plus or minus 25 deg F, measured at the mop cart or mechanical spreader immediately before application.

1.4 PERFORMANCE REQUIREMENTS

A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.

B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.

C. Codes:

1. The total Roofing System shall conform to city, county, state and federal codes for roof assembly wind and fire hazard requirements, and any other relevant requirements applicable at time of construction. Contact local building authorities and fire marshal to become familiar with local laws and regulations governing this work. Inform Architect if Project Manual does not conform to current regulatory requirements.

D. Factory Mutual:

1. Provide total Roofing System component materials which have been tested for application and slopes indicated and are listed by Factory Mutual for I-90 wind uplift rating.

1.5 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other Work.

1. Base flashings, cants, and membrane terminations.
2. Tapered insulation, including slopes.
3. Crickets, saddles, and tapered edge strips, including slopes.
4. Insulation fastening patterns.

C. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.

D. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.

1. Submit evidence of meeting performance requirements.

E. Qualification Data: For Installer and manufacturer.

F. Product Test Reports: Based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for components of roofing system.

G. Maintenance Data: For roofing system to include in maintenance manuals.

H. Warranties: Special warranties specified in this Section.

I. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.

B. Manufacturer Qualifications: A qualified manufacturer that has UL listing for roofing system identical to that used for this Project.

C. Source Limitations: Obtain components for roofing system from or approved by roofing system manufacturer.

D. Preinstallation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:

1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
5. Review structural loading limitations of roof deck during and after roofing.
6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
7. Review governing regulations and requirements for insurance and certificates if applicable.
8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storage.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.8 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.9 WARRANTY

A. Special Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.

1. Special warranty includes roofing membrane, base flashings, roof insulation fasteners cover boards and other components of roofing system.

2. Warranty Period: 10 years from date of Substantial Completion.

B. Special Project Warranty: Submit a copy of the Owner's two (2) year on the DFCM standard form ,

1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Built-up Asphalt Roofing:

a. CertainTeed Corporation.
b. Firestone Building Products Company.
c. GAF Materials Corporation.
d. Johns Manville International, Inc.
e. TAMKO Roofing Products, Inc.

2.2 ROOFING MEMBRANE PLIES

A. Ply Sheet: ASTM D 2178, Type VI, asphalt-impregnated, glass-fiber felt.

2.3 FLASHING MATERIALS

A. Backer Sheet: ASTM D 2178, Type VI, asphalt-impregnated, glass-fiber felt.

B. Flashing Sheet: ASTM D 6162, Type I or II, composite polyester- and glass-fiber-reinforced, SBS-modified asphalt sheet; granular surfaced; suitable for application method specified and as follows:

1. Granule Color: Gray.

C. Glass-Fiber Fabric: Woven glass cloth, treated with asphalt, complying with ASTM D 1668, Type I.

2.4 ASPHALT MATERIALS

A. Roofing Asphalt: ASTM D 312, Type III or IV as recommended by built-up roofing system manufacturer for application.

2.5 AUXILIARY ROOFING MEMBRANE MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with built-up roofing.

B. Asphalt Roofing Cement: ASTM D 4586, asbestos free, of consistency required by roofing system manufacturer for application.

C. Mastic Sealant: Polyisobutylene, plain or modified bitumen, nonhardening, nonmigrating, nonskinning, and nondrying.

D. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470; designed for fastening roofing membrane components to substrate; tested by manufacturer for required pullout strength; and acceptable to roofing system manufacturer.

E. Metal Flashing Sheet: Metal flashing sheet is specified in Division 7 Section "Sheet Metal Flashing and Trim."

F. Aggregate Surfacing: ASTM D 1863, No. 6 or No. 67, clean, dry, opaque, water-worn gravel or crushed stone, free of sharp edges.

G. Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

2.6 ROOF INSULATION

A. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.

B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, felt or glass-fiber mat facer on both major surfaces.

1. Manufacturers:

a. Apache Products Company.
b. Celotex Corporation.
c. Firestone Building Products Company.
d. GAF Materials Corporation.
e. Johns Manville International, Inc.
f. Koppers Industries.
g. RMAX.

C. Perlite Board Insulation: ASTM C 728; composed of expanded perlite, cellulosic fibers, binders, and waterproofing agents with top surface seal-coated.

1. Manufacturers:

a. Celotex Corporation.
b. GAF Materials Corporation.
c. Honeywell Commercial Roofing Systems.
d. Johns Manville International, Inc.
e. Koppers Industries.

D. Tapered Insulation: Provide factory-tapered insulation boards fabricated to slope of 1/4 inch per 12 inches, unless otherwise indicated.

E. Provide preformed saddles, crickets, tapered edge strips, and other insulation shapes where indicated for sloping to drain. Fabricate to slopes indicated.

2.7 INSULATION ACCESSORIES

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatible with membrane roofing.

B. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

C. Insulation Cant Strips: ASTM C 728, perlite insulation board.

D. Tapered Edge Strips: ASTM C 728, perlite insulation board.

E. Cover Board: ASTM C 728, perlite insulation board, 3/4 inch thick, with top surface seal-coated.

2.8 COATING MATERIALS

A. Roof Coating: ASTM D 2824, Type III, fibered, asbestos-free aluminum-pigmented asphaltic coating.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:

1. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.

2. Verify that wood cants, blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
3. Verify that deck is securely fastened with no projecting fasteners and with no adjacent units in excess of 1/16 inch out of plane relative to adjoining deck.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.

B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

3.3 INSULATION INSTALLATION

A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.

B. Comply with roofing system manufacturer's written instructions for installing roof insulation.

C. Insulation Cant Strips: Install and secure preformed 45-degree insulation cant strips at junctures of built-up roofing membrane system with vertical surfaces or angle changes greater than 45 degrees.

D. Install tapered insulation under area of roofing to conform to slopes indicated.

E. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.

1. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.

F. Install one or more layers of insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2 inches or greater, install 2 or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches in each direction.

G. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.

H. Install tapered edge strips at perimeter edges of roof that do not terminate at vertical surfaces.

I. Mechanically Fastened Insulation: Install each layer of insulation and secure to deck using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to deck type.

1. 4'x 4' Sheets max size.
2. Fasten insulation to resist uplift pressure at corners, perimeter, and field of roof.

J. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Stagger joints from joints in insulation below a minimum of 6 inches in each direction. Loosely butt cover boards together and fasten to roof deck. Tape joints if required by roofing system manufacturer.

1. Fasten according to requirements in FMG's "Approval Guide" for specified Windstorm Resistance Classification.
2. Fasten to resist uplift pressure at corners, perimeter, and field of roof.
3. Apply hot roofing asphalt to underside and immediately bond cover board to substrate.
4. Back mop each piece- 90% adhesive min.

3.4 ROOFING MEMBRANE INSTALLATION, GENERAL

A. Install built-up roofing membrane system according to roofing system manufacturer's written instructions and applicable recommendations of ARMA/NRCA's "Quality Control Guidelines for the Application of Built-up Roofing."

1. Install roofing system BU- I-A-G 4-A, according to specification-plate classifications in NRCA's "The NRCA Roofing and Waterproofing Manual" and requirements in this Section.

B. Start installation of built-up roofing membrane in presence of roofing system manufacturer's technical personnel.

C. Cooperate with testing and inspecting agencies engaged or required to perform services for installing built-up roofing system.

D. Coordinate installing roofing system components so insulation and roofing membrane sheets are not exposed to precipitation or left exposed at the end of the workday or when rain is forecast.

1. Provide tie-offs at end of each day's work to cover exposed roofing membrane sheets and insulation with a course of coated felt set in roofing cement or hot roofing asphalt with joints and edges sealed.
2. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system.
3. Remove and discard temporary seals before beginning work on adjoining roofing.

E. Asphalt Heating: Heat roofing asphalt and apply within plus or minus 25 deg F of equiviscous temperature unless otherwise required by roofing system manufacturer. Do not raise roofing asphalt temperature above equiviscous temperature range more than one hour before time of application. Do not exceed roofing asphalt manufacturer's recommended temperature limits during roofing asphalt

heating. Do not heat roofing asphalt within 25 deg F of flash point. Discard roofing asphalt maintained at a temperature exceeding finished blowing temperature for more than 4 hours.

F. Substrate-Joint Penetrations: Prevent roofing asphalt from penetrating substrate joints, entering building, or damaging roofing system components or adjacent building construction.

3.5 ROOFING MEMBRANE INSTALLATION

1. Adhere to substrate in a solid mopping of hot roofing asphalt.

B. Install four ply sheets starting at low point of roofing system. Align ply sheets without stretching. Shingle side laps of ply sheets uniformly to achieve required number of plies throughout thickness of roofing membrane. Shingle in direction to shed water. Extend ply sheets over and terminate beyond cants.

1. Embed each ply sheet in a solid mopping of hot roofing asphalt applied at rate required by roofing system manufacturer, to form a uniform membrane without ply sheets touching.

C. Aggregate Surfacing: Promptly after installing and testing roofing membrane, base flashing, and stripping, flood-coat roof surface with 60 lb/100 sq. ft. of hot roofing asphalt. While flood coat is hot and fluid, cast the following average weight of aggregate in a uniform course:

1. Aggregate Weight: 400 lb/100 sq. ft..

2. If aggregate surfacing is delayed, promptly apply glaze coat of hot roofing asphalt at a rate of 10 lb/100 sq. ft..

3.6 FLASHING AND STRIPPING INSTALLATION

A. Install base flashing over cant strips and other sloping and vertical surfaces, at roof edges, and at penetrations through roof, and secure to substrates according to roofing system manufacturer's written instructions and as follows:

1. Backer Sheet Application: Mechanically fasten backer sheet to walls or parapets. Adhere backer sheet over roofing membrane at cants in a solid mopping of hot roofing asphalt.
2. Flashing Sheet Application: Adhere flashing sheet to substrate in asphalt roofing cement; apply cement at rate required by roofing system manufacturer.

B. Extend base flashing up walls or parapets a minimum of 8 inches above roofing membrane and 4 inches onto field of roofing membrane.

C. Mechanically fasten top of base flashing securely at terminations and perimeter of roofing.

1. Seal top termination of base flashing with a strip of glass-fiber fabric set in asphalt roofing cement.

D. Install stripping, according to roofing system manufacturer's written instructions, where metal flanges and edgings are set on built-up roofing.

1. Flashing-Sheet Stripping: Install flashing-sheet stripping in a continuous coating of asphalt roofing cement or in a solid mopping of hot roofing asphalt applied at not less than 425 deg F, and extend onto roofing membrane.

E. Roof Drains: Set 30-by-30-inch lead flashing in bed of asphalt roofing cement on completed roofing membrane. Cover metal flashing with stripping and extend a minimum of 4 inches beyond edge of metal flashing onto field of roofing membrane. Clamp roofing membrane, metal flashing, and stripping into roof-drain clamping ring.

1. Install stripping of not less than two roofing membrane ply sheets, each set in a continuous coating of asphalt roofing cement or in a solid mopping of hot roofing asphalt.

3.7 FIELD QUALITY CONTROL

A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.

1. Notify Architect or Owner 48 hours in advance of date and time of inspection.

B. Repair or remove and replace components of roofing system where test results or inspections indicate that they do not comply with specified requirements.

C. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

3.8 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.

B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

END OF SECTION 07511

SECTION 07620 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section

1.2 SUMMARY

A. This Section includes the following sheet metal flashing and trim:

1. Formed wall flashing and trim.
2. Formed equipment support flashing.
3. Formed copings.
4. Lead flashing.

B. Related Sections include the following:

1. Division 6 Section "Miscellaneous Carpentry" for wood nailers, curbs, blocking and sheathing.
2. Division 7 Section "Built-Up Asphalt Roofing" for installing sheet metal flashing and trim integral with roofing membrane.

1.3 PERFORMANCE REQUIREMENTS

A. General: Install sheet metal flashing and trim to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failing, rattling, leaking, and fastener disengagement.

B. Water Infiltration: Provide sheet metal flashing and trim that do not allow water infiltration to building interior.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: Show layouts of sheet metal flashing and trim, including plans and elevations. Distinguish between shop- and field-assembled work. Include the following:

1. Identify material, thickness, weight, and finish for each item and location in Project.
2. Details for forming sheet metal flashing and trim, including profiles, shapes, seams, and dimensions.
3. Details for fastening, joining, supporting, and anchoring sheet metal flashing and trim, including fasteners, clips, cleats, and attachments to adjoining work.

C. For verification purposes submit completely finished samples for each type of coping and sheet metal and finish required. Where normal color and texture variations are to be expected, include 2 or more units in each set of samples showing limits of such variations. Provide samples of the following sizes.

1. Copings: 8" long section.

1.5 QUALITY ASSURANCE

A. Sheet Metal Flashing and Trim Standard: Comply with SMACNA's "Architectural Sheet Metal Manual." Conform to dimensions and profiles shown unless more stringent requirements are indicated.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver sheet metal flashing materials and fabrications undamaged. Protect sheet metal flashing and trim materials and fabrications during transportation and handling.

B. Unload, store, and install sheet metal flashing materials and fabrications in a manner to prevent bending, warping, twisting, and surface damage.

C. Stack materials on platforms or pallets, covered with suitable weathertight and ventilated covering. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.

1.7 COORDINATION

A. Coordinate installation of sheet metal flashing and trim with interfacing and adjoining construction to provide a leakproof, secure, and noncorrosive installation.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Prefinished Painted Sheet Steel: ASTM A446, copper bearing galvanized steel, each face coated with a minimum 0.2 mil thick thermo-cured fluorocarbon coating containing "Kynar 500" resin, over 1.0 mil minimum thick inhibiting thermo-cured primer, 24 gauge, of manufacturer's standard color as selected by Architect.

B. Zinc-Coated Steel Sheet: ASTM A526, with G90 zinc coating, 22 gauge where not otherwise indicated.

C. Exposed Fasteners: Stainless steel, non-magnetic screws of type and size standard with manufacturer for product and application indicated. Provide all weather-exposed fasteners with 5/8" diameter neoprene gaskets.

D. Concealed Fasteners: Screws or rivets of same metal as item fastened or other non-corrosive metal as recommended by manufacturer

E. Mastic Sealant: Single-component acrylic sealant; ASTM C 920 Type S Class 12.5 Grade NS, or FS TT-S0-00230 Class B Type Non-sag; solids 95% acrylic.

1. Equal to Sikaflex-1A sealant.

F. Adhesives: Type recommended by manufacturer for substrate and project conditions, and formulated to withstand min. 60 psf uplift force.

G. Lead Sheet: ASTM B 749, Type L51121, copper-bearing lead sheet, with a minimum thickness of 0.0625 inch (4 lb.) except not less than 0.0937 inch thick for applications where burning (welding) is involved.

2.2 FABRICATION, GENERAL

A. General: Custom fabricate sheet metal flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated. Shop fabricate items where practicable. Obtain field measurements for accurate fit before shop fabrication.

B. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.

C. Fabricate sheet metal flashing and trim without excessive oil canning, buckling, and tool marks and true to line and levels indicated, with exposed edges folded back to form hems.

D. Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant to comply with SMACNA recommendations.

E. Expansion Provisions: Where lapped or bayonet-type expansion provisions in the Work cannot be used, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with elastomeric sealant concealed within joints.

F. Conceal fasteners and expansion provisions where possible on exposed-to-view sheet metal flashing and trim, unless otherwise indicated.

G. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.

1. Thickness: As recommended by SMACNA's "Architectural Sheet Metal Manual" for application but not less than thickness of metal being secured.

2.3 LOW-SLOPE ROOF SHEET METAL FABRICATIONS

A. Copings:

1. Shop or factory system of formed prefinished metal coping, and formed splice plates; thickness of coping as indicated, but not less than 24 gauge.

    a. Joints: Standing seam.
    b. Space coping anchors at 8-inch minimum spacing, unless otherwise noted. Install 22 gauge hold down cleats on both sides of coping.

B. Counterflashing and Reglets: Fabricate from the following material:

1. Zinc-coated sheet steel; thickness of material as indicated, but not less than 22 gauge.

C. Flashing Receivers: Fabricate from the following material:

1. Zinc-coated sheet steel; thickness of material as indicated, but not less than 22 gauge.

D. Roof-Penetration Flashing: Fabricate from the following material:

1. Lead: 4.0 lb/sq. ft., hard tempered.

    a. Minimum size: 36" x 36" around drains.
    b. Roof jacks: 8" minimum height and 6" minimum flange at pipe penetrations.

E. Equipment Support Flashing: Fabricate from the following material:

1. Zinc-coated sheet steel; thickness of material as indicated, but not less than 22 gauge.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions and other conditions affecting performance of work.

1. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.

1. Torch cutting of sheet metal flashing and trim is not permitted.

B. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action by painting contact surfaces with bituminous coating or by other permanent separation as recommended by fabricator or manufacturers of dissimilar metals.

C. Install exposed sheet metal flashing and trim without excessive oil canning, buckling, and tool marks.

D. Install sheet metal flashing and trim true to line and levels indicated. Provide uniform, neat seams with minimum exposure of solder, welds, and elastomeric sealant.

E. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.

1. Space cleats not more than 12 inches apart. Anchor each cleat with two fasteners. Bend tabs over fasteners.

F. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped or bayonet-type expansion provisions cannot be used or would not be sufficiently watertight, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with elastomeric sealant concealed within joints.

G. Fasteners: Use fasteners of sizes that will penetrate substrate not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws.

1. Galvanized or Prepainted, Metallic-Coated Steel: Use stainless-steel fasteners.

H. Seal joints with elastomeric sealant as required for watertight construction.

1. Where sealant-filled joints are used, embed hooked flanges of joint members not less than 1 inch into sealant. Form joints to completely conceal sealant.
2. Prepare joints and apply sealants to comply with requirements in Division 7 Section "Joint Sealants."

3.3 ROOF FLASHING INSTALLATION

A. General: Install sheet metal roof flashing and trim to comply with performance requirements and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, set units true to line, and level as indicated. Install work with laps, joints, and seams that will be permanently watertight.

B. Copings: Anchor to resist uplift and outward forces according to recommendations in FMG Loss Prevention Data Sheet 1-49 for specified wind zone and as indicated.

1. Interlock exterior bottom edge of coping with continuous cleats anchored to substrate at 24-inch centers.
2. Anchor interior leg of coping with screw fasteners and washers at 24-inch centers.

C. Roof Penetration Flashing: Extend height as needed to allow new pipe flashing to be a minimum of 8 inches above finished membrane. Install a new soldered lead pipe flashing on top of newly installed

membrane with flanges extending a minimum of 6 inches onto the roof. Solid mop two layers of glass felt to the flange per roofing manufacturer's recommendations.

D. Roof Penetration Counterflashing: Install lead counterflashing umbrella with close-fitting collar with top edge flared for elastomeric sealant, extending a minimum of 8 inches over base flashing. Install stainless-steel draw band and tighten.

E. Counterflashing: Coordinate installation of counterflashing with installation of base flashing. Insert counterflashing in reglets or receivers and fit tightly to base flashing. Extend counterflashing 8 inches over base flashing. Lap counterflashing joints a minimum of 4 inches and bed with elastomeric sealant.

1. Secure in a waterproof manner by means of anchor and washer at 24-inch centers.

3.4 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder and sealants.

C. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain in a clean condition during construction.

D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 07620

A. General: Provide hardware for each door to comply with requirements of Section "Door Hardware," hardware set numbers indicated in door symbol, and in the following schedule of hardware sets.

1. Hardware sets indicate quantity, item, manufacturer and product designation, size, and finish or color, as applicable.

HARDWARE SCHEDULE

NO.	QTY.	ITEM	MFG	MODEL	STYLE/SIZE	FINISH
1	Front Lobby Pairs					
	6 Ea	Hinges	Hagar	AB700	4 ½ “x 4 ½”	26D
	1 Ea	Exit Device	Von Duprin*	9827 LBR x CM993-MGI-BP-LC-ATK	Sparta	26D
	1 Ea	Exit Device	Von Duprin*	9827L-DT LBR	Sparta	26D
	2 Ea	Closer	LCN*	4040	H- Cush	AL
	2 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
	2 Ea	Stop	Quality	W302	----------	26D
2	Rear Lobby					
	3 Ea	Hinges	Hagar	AB700	4 ½ “x 4 ½”	26D
	1 Ea	Exit Device	Von Duprin*	98NL x CM993-MGI-BP-LC-ATK	Sparta	26D
	1 Ea	Closer	LCN*	4040	EDA	AL
	1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32
	1 Ea	Stop	Quality	W302	----------	26D
3	Classroom/Lab/Conference (rated outswinging)					
	3 Ea	Hinges	Hager	AB700	4 ½ “x 4 ½”	26D
	1 Ea	Lockset	Schlage*	D94PD	Sparta	26D
	1 Ea	Closer	LCN*	4040	Cush	AL
	1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
	1 Set	Smoke Seal	National Guard	S88		D
	1 Ea	Stop	Quality	W302	----------	26D
4	Classroom/Lab/Conference (rated inswinging)					
	3 Ea	Hinges	Hager	AB700	4 ½ “x 4 ½”	26D
	1 Ea	Lockset	Schlage*	D94PD	Sparta	26D
	1 Ea	Closer	LCN*	4040		AL
	1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
	1 Set	Smoke Seal	National Guard	S88		D
	1 Ea	Stop	Quality	W302	----------	26D
5	Office (non-rated)					
	3 Ea	Hinges	Hager	AB700	4 ½“x 4 ½ “	26D

	1 Ea	Lockset	Schlage*	D50PD	Sparta	26D
	1 Ea	Stop	Quality	W302	----------	32D
	1 Ea	Stop	Quality	W302	----------	26D

6 Office (rated)

3 Ea	Hinges	Hager	AB700	4 ½ " x 4 ½"	26D
1 Ea	Lockset	Schlage*	D91PD	Sparta	26D
1 Ea	Closer	LCN*	4040		AL
1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
1 Ea	Stop	Quality	W302	----------	26D
1 Set	Smokeseal	National Guard	S88		D

7 Janitor/Storage/Tele/Elec/Mech (rated)

3 Ea	Hinges	Hager	AB700	4 ½ " x 4 ½"	26D
1 Ea	Lockset	Schlage*	D96PD	Sparta	26D
1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
1 Ea	Closer	LCN*	4041	H-Cush	AL
1 Set	Smokeseal	National Guard	S88		D
1 Ea	Stop	Quality	W302	----------	26D

8 Janitor/Storage/Tele/Elec/Mech (non-rated)

3 Ea	Hinges	Hager	AB700	4 ½ " x 4 ½"	26D
1 Ea	Lockset	Schlage*	D96PD	Sparta	26D
1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
1 Ea	Stop	Quality	W302	----------	26D

9 Conference (non-rated)

3 Ea	Hinges	Hager	AB700	4 ½ "x 4 ½ "	26D
1 Ea	Lockset	Schlage*	D70PD	Sparta	26D
1 Ea	Stop	Quality	W302		26D

10 Lab pair

6 Ea	Hinges	Hager	AB700	4 ½ "x 4 ½"	26D
1 Ea	Lockset	Schlage	D94PD	Sparta	26D
1 Ea	Closer	LCN*	4040	H-Cush	AL
1 Set	Flushbolts	Ives	FB358		26D
1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
1 Set	Smokeseal	National Guard	S88		D
1 Ea	Stop	Quality	W302	----------	26D

11 Hold Open Pairs (rated)

6 Ea	Hinges	Hager	AB700	4 ½ "x 4 ½"	26D
1 Ea	Lockset	Schlage*	D94PD	Sparta	26D
2 Ea	Closer	LCN*	4040	EDA	AL

1 Ea	Coordinator	Ives	Cor	w/FL20 & 2- MB2	28
1 Set	Auto flushbolt	Ives	FB32		26D
2 Ea	Kick Plate	Quality	No. 48		32D
1 Set	Smokeseal	National Guard	2525		D
1 Ea	Astragral				
2 Ea	Mag Holder	(By electrician)			

12 Rest Rooms (rated)

3 Ea	Hinges	Hager	AB700	4 ½ " x 4 ½"	26D
1 Ea	Lockset	Schlage*	D91PD	Sparta	26D
1 Ea	Closer	LCN	4040	H-Cush	AL
1 Ea	Kick plate	Quality	No. 48	10"	32D
1 Ea	Mop plate	Quality	No. 48	4"	32D
1 Ea	Stop	Quality	W302		26D
1 Ea	Closer	LCN*	4041	3049EDA	AL
1 Set	Smoke Seal	National Guard	2525		D

13 Rest Rooms (non rated)

3 Ea	Hinges	Hager	AB700	4 ½ " x 4 ½"	26D
1 Ea	Lockset	Schlage*	D91PD	Sparta	26D
1 Ea	Push	Rockwood	No. 70	12" x 22"	32D
1 Ea	Pull Plate	Rockwood	111x70	10" C to C	32D
1 Ea	Kick plate	Quality	No. 48	10"	32D
1 Ea	Mop plate	Quality	No. 48	4"	32D
1 Ea	Stop	Quality	W302		32D
1 Ea	Closer	LCN*	4041	3049EDA	AL

14 Classroom/Lab/Conference (rated inswinging)

3 Ea	Hinges	Hager	AB700	4 ½ "x 4 ½"	26D
1 Ea	Lockset	Locknetics*	CM5196-MGI-BP-LC-ATK	Sparta	26D
1 Ea	Closer	LCN*	4040		AL
1 Ea	Kick Plate	Rockwood	K1050	10" x B4E x CSK	32D
1 Set	Smoke Seal	National Guard	S88		D
1 Ea	Stop	Quality	W302	----------	26D

* No Substitution

END OF SECTION 08711

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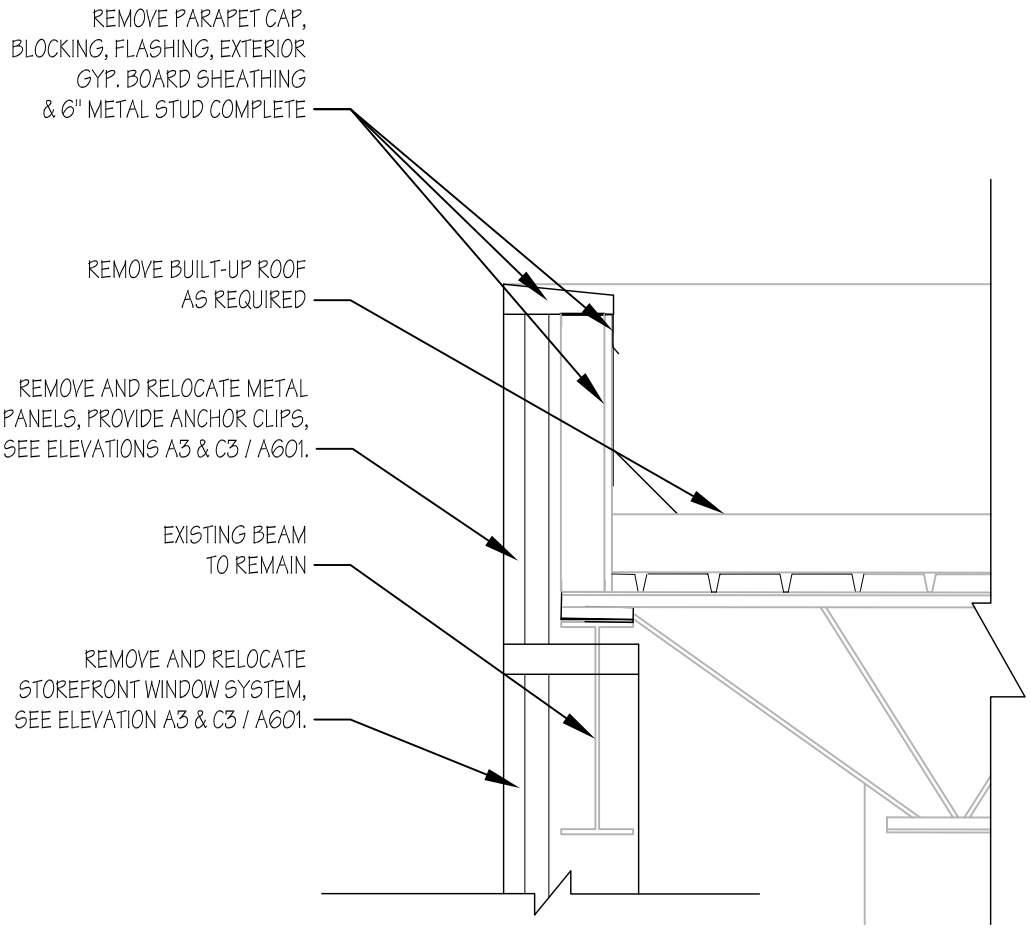

B1 DEMOLITION PARAPET WALL

SCALE: 3/4"= 1'-0"

HFSArchitects
ARCHITECTURE
INTERIORS
PLANNING

DATC CULINARY REMODEL

SD-1

SCALE: 3/4"=1'-0"
DATE: 02.09.2007
CLIENT PROJ No XXXX
HFSA PROJ No 0615.01

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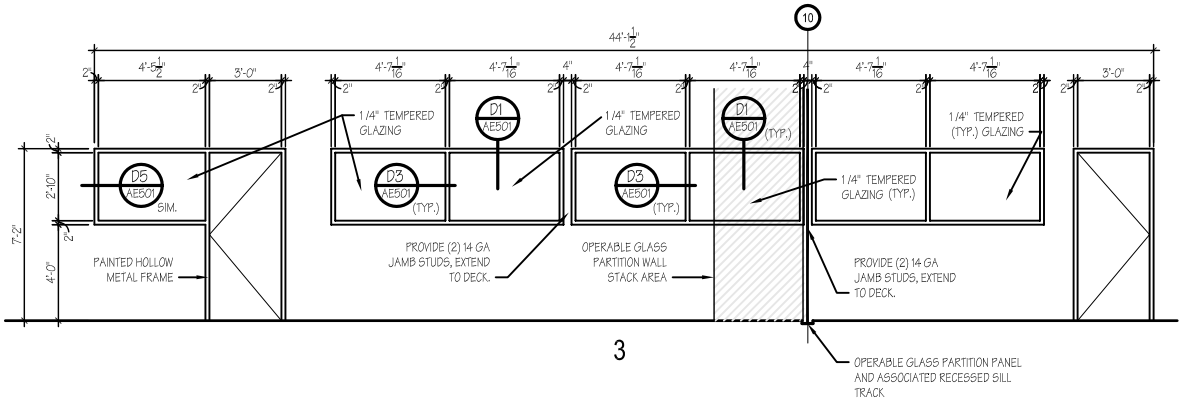


C1 WINDOW TYPE -3

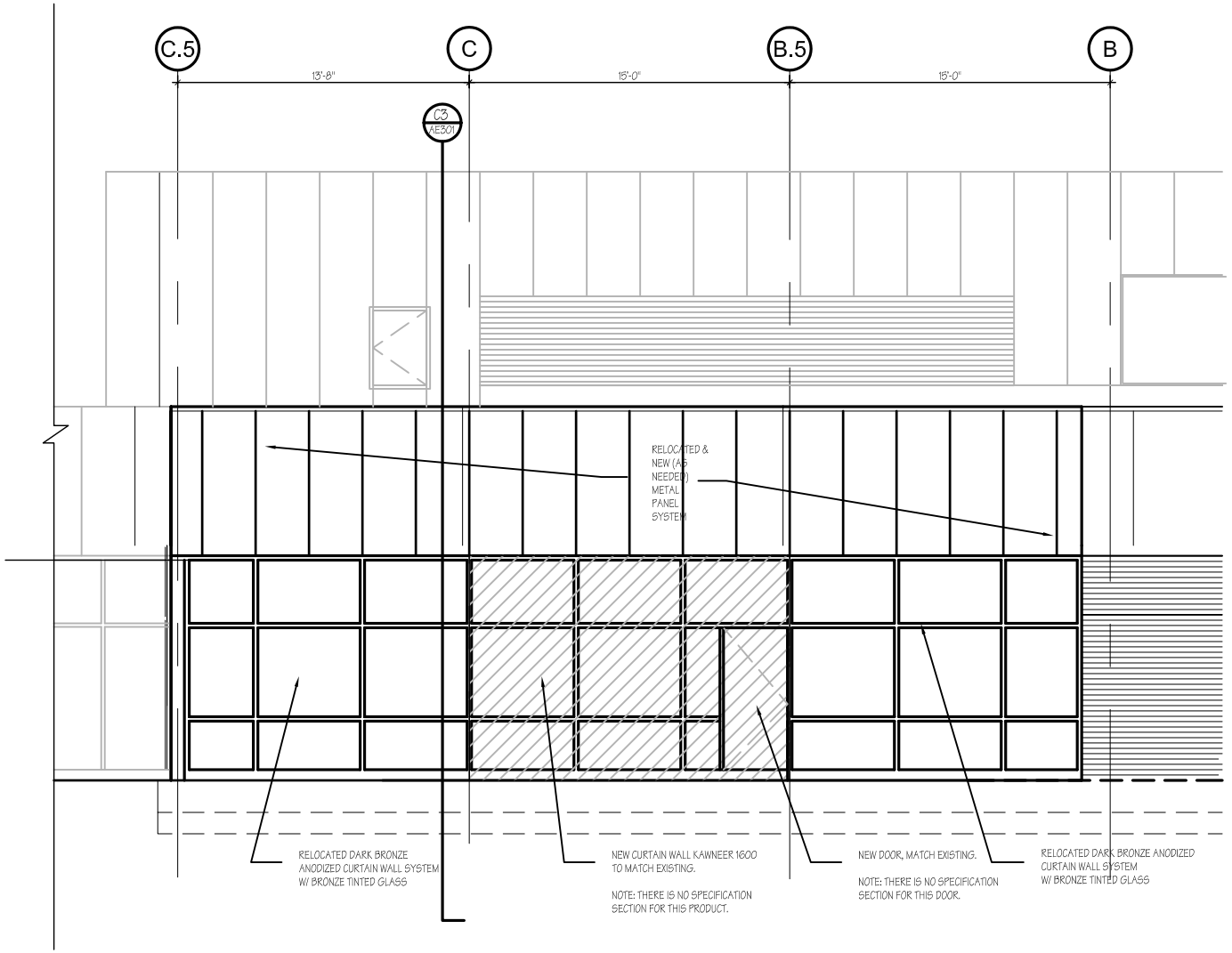
SCALE: 1/8"=1'-0"

HFSArchitects
ARCHITECTURE
INTERIORS
PLANNING

DATC CULINARY REMODEL

SD-2

SCALE:	1/8"=1'-0"
DATE:	2.12.07
CLIENT PROJ No	06134220
HFSA PROJ No	0615.01



A3 BUILDING ELEVATION (EAST)

1/8"=1'-0"

HFSArchitects
ARCHITECTURE
INTERIORS
PLANNING

DATC CULINARY REMODEL

SD-3

SCALE: 1/8"=1'-0"
DATE: 2.12.07
CLIENT PROJ No 0634220
HFSA PROJ No 0615.01

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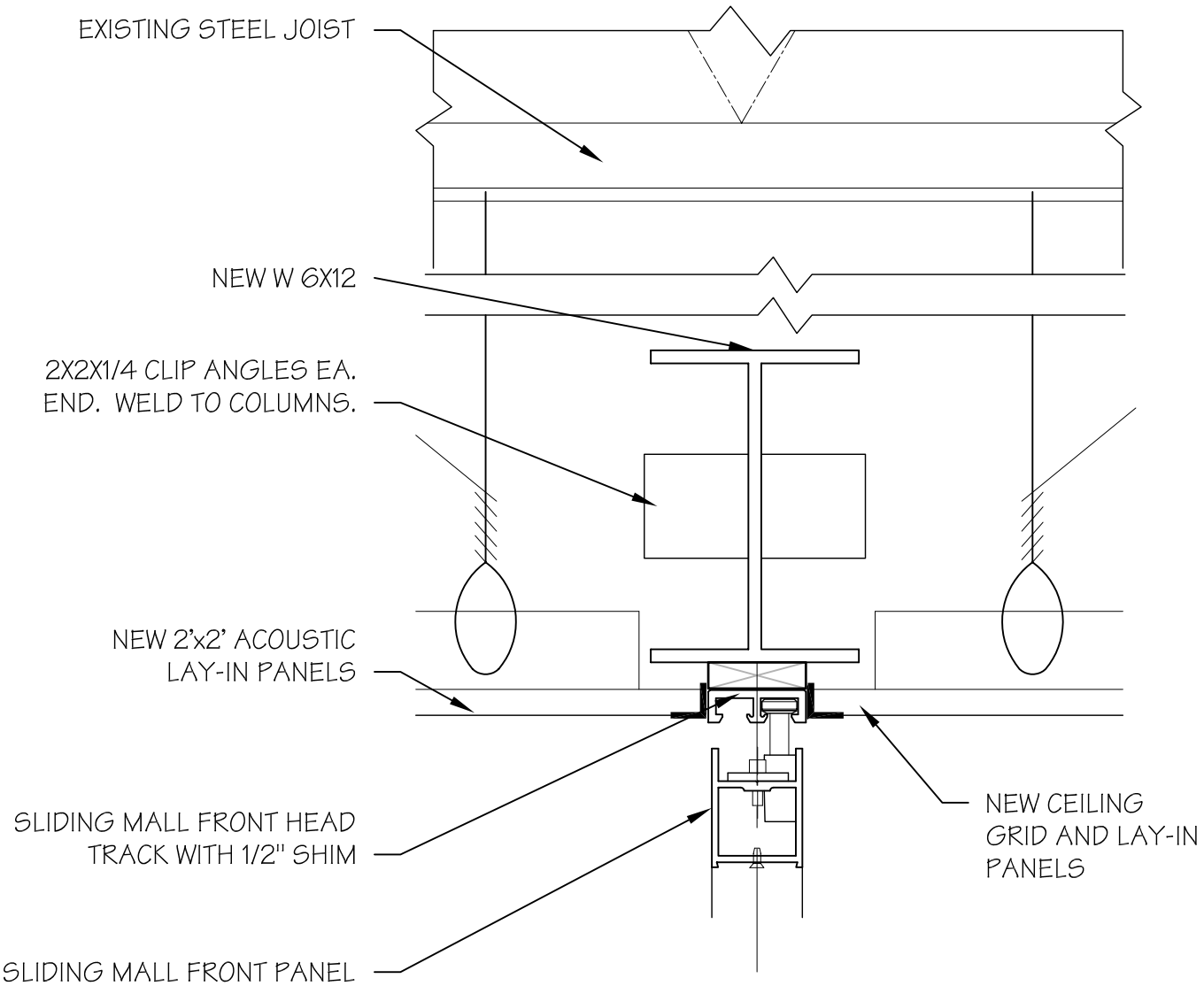
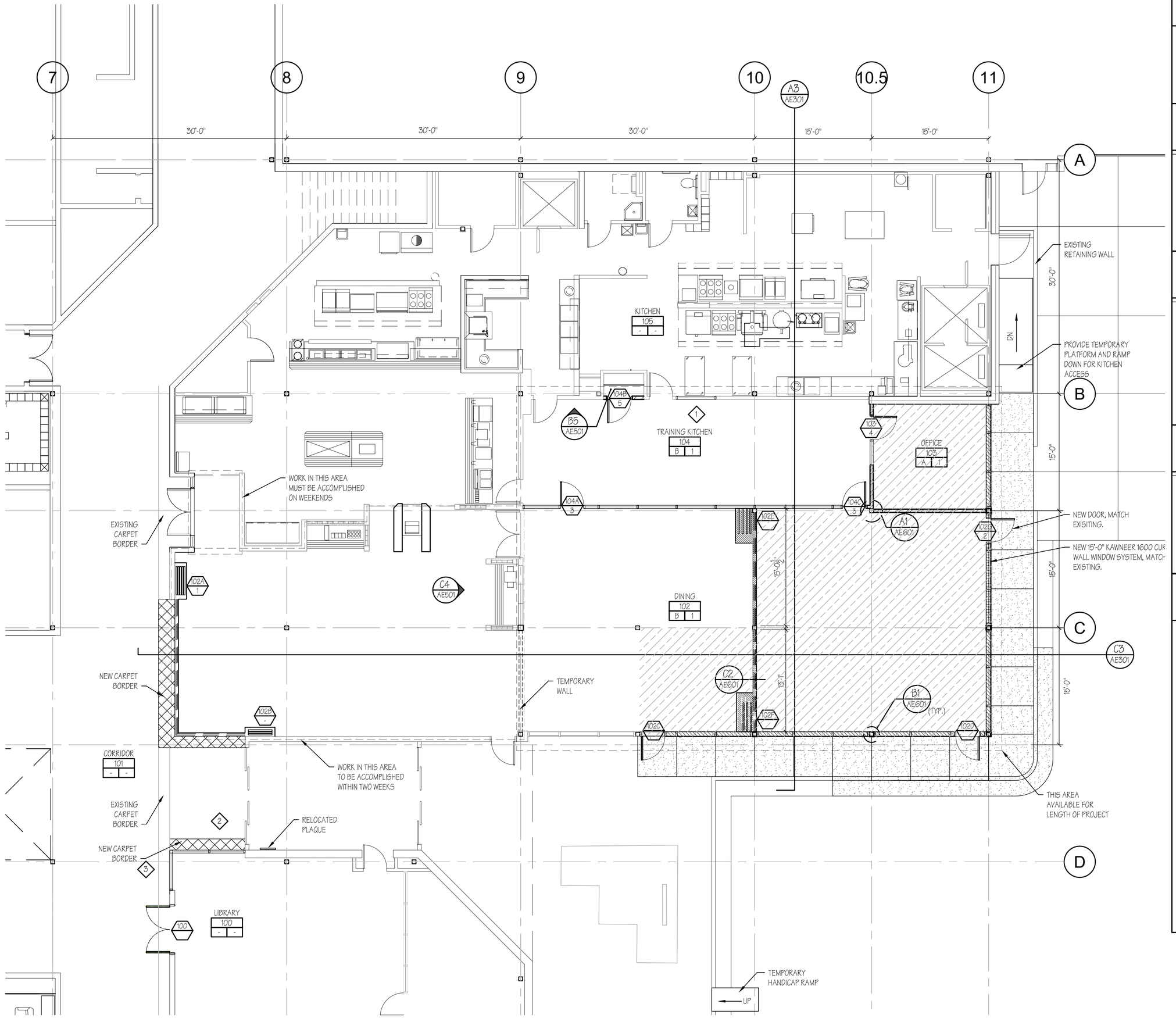


D1 SLIDING MALL FRONT HEAD

SCALE: 3"=1'-0"



A3 FLOOR PLAN
1/8"= 1'-0"

N

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM FINISHED FACE AND/OR CENTER LINE OF NEW AND EXISTING WALLS.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. PATCH AND REPAIR ANY DAMAGE TO ANY SURFACE, EQUIPMENT ETC NOT IN THIS SCOPE OF WORK.

FINISH LEGEND

FLOOR / BASE — ROOM NAME / RM NUM / F | W — WALL

A. CARPET WITH RUBBER BASE.	1. PAINT NEW & EXISTING GYPSUM BOARD WALLS
B. 12 X 12 PORCELAIN PAVER TILE W / PORCELAIN PAVER TILE BASE.	

PARTITION LEGEND

- EXISTING STUD WALL TO REMAIN, TYPICAL
- NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE AT 4'-0" O.C.
- RELOCATED CURTAIN WALL SYSTEM.
- ONE (1) NEW CURTAIN WALL BETWEEN GRID LINES B.5 & C.

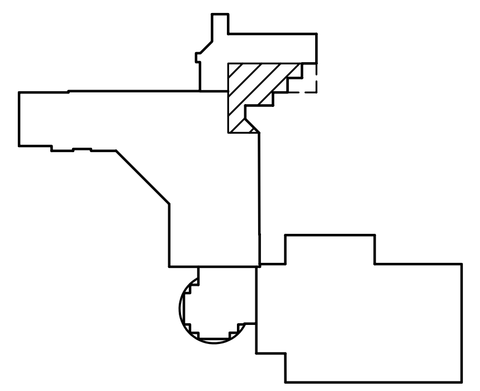
CARPET LEGEND

- ACCENT BORDER CARPET TO MATCH EXISTING CARPET AND WIDTH
- 4" RECESS FOR SLIDING MALL FRONT TRACK, SEE SIM DETAIL C2/AE601

LEGEND

- SEE C1/AE501 FOR WINDOW TYPES.
- PROVIDE NEW 4" CONCRETE SLAB ON GRADE OVER 6" GRAVEL.

KEY PLAN



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CONSULTANT

CULINARY REMODEL

DAVIS APPLIED TECHNOLOGY COLLEGE

MARK	DATE	DESCRIPTION

DATE:	DECEMBER 21 , 2006
AGENCY PROJECT NO:	06134220
HFSA PROJECT NO:	0615.01
CAD DWG FILE NO:	
DRAWN BY:	SAM
CHECKED BY:	
DESIGNED BY:	BS
DWG TYPE:	
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

FLOOR PLAN

AE101

SHEET 5 OF